

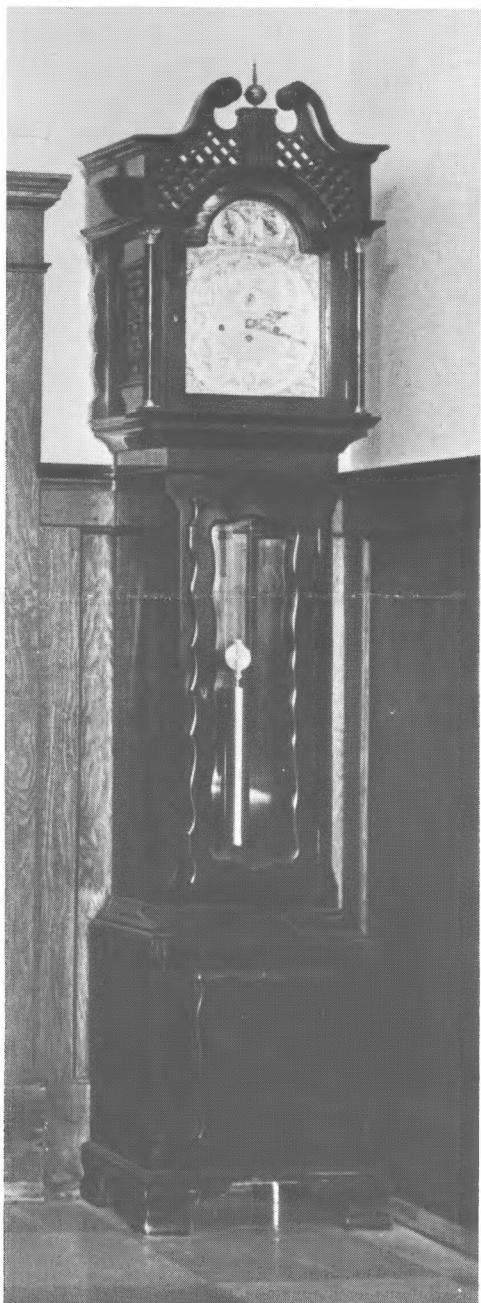
FOLIO



THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON 7, ALBERTA

NOVEMBER 26, 1970



This magnificently-kept grandfather clock dominates the foyer in the main building, built in 1910. It has been sounding the hours for classes, chapel, and meals for over sixty years, as long as Collège St. Jean has been in existence.

College Universitaire St. Jean

The red brick building stands in peaceful authority on one of Edmonton's highest hills. From it, one can look across the valley of the North Saskatchewan to a spread of green tree-tops. In the bright sun, the concrete towers of the city disappear, and there remains only the clear vista that was seen by the founders of Collège St. Jean.

Father HENRI GRANDIN, Vicar of the Missions of Alberta-Saskatchewan, had a dream of building a permanent home for the juniorate for future Oblate priests. In 1908 he had seen the beginnings of an ecclesiastical school in a slatted wooden house in Pincher Creek. One priest, PERE DARIDON, and two pupils studied there. Growth seemed impossible in this isolated place, so the school was moved to Edmonton. For one year the scholars were housed on 111 Street, and then Father Grandin's wish came true.

In 1910 the site for Collège St. Jean was chosen. There was nothing on Strathcona Hill but the view from the doorway of the first building, which probably inspired the College's crest, a huge globe of the sun rising over a grassy field, with the motto "Levate oculos," lift up your eyes.

The founders established a college for the French Catholics of Western Canada. In the program of studies, the aim of Collège was given as the formation of "une élite bilingue et cultivee, à tous les niveaux de la société." Collège moved into its new home with four fathers, two brothers, and twenty-nine juniorists. Now, sixty years later, its population is still tiny, only 400. Yet Collège is as old as its large English-speaking neighbor, The University of Alberta. In fact, when the first building rose at Collège St. Jean, only Alberta College South, now St. Stephen's College, existed on the area designated as the campus of the new university. Athabasca Hall was built one year later, in 1911.

Classical, religious, and academic studies were given, with subjects such as rhetoric, philosophy, Latin, Greek, art, and English. In 1921 the capacity of the main building was tripled by additions. The secondary school was built in two sections in 1958 and 1961 and added a gymnasium, lounge, and cafeteria.

Collège has changed with time in more than physical appearance. Although it began as an English-speaking school, in 1926 a decision of Rome allowed that instruction be given in French. The school became non-denominational in 1943. In 1955 Collège became affiliated with the University of Ottawa, having followed its courses for several decades. The university courses were then recognized by the Department of Education of this province. Instruction is now bilingual, and courses are similar to those at The University of Alberta. Classes are given from secondary school to second year university. Students then transfer to other campuses for the final year of their programs.

Once entirely residential, now only about one-eighth of the students live in. Women were admitted to Collège for the first time in 1961, and only at university level; now they outnumber the men. There are more lay persons on staff than there are clerics, and even the chapel, a classic of hand-carvings, is rarely used.

Integration with The University of Alberta, approved by the General Faculties Council and by the Board of Governors as of



The subjoined portrait shows the editorial staff of FOLIO moving to their new premises. Readers, irate and otherwise, may now find them at Room 381, Central Academic Building, telephone (unchanged) 432-4991.



ABOVE, Collège St. Jean, with its broad expanse of lawn and trees reflects the personal efforts of the clerics who have traditionally tended

the grounds. BELOW, The grotto, handbuilt by the brothers in the 1940's, was used for outdoor worship.

Friday, November 13, will benefit the Collège in many ways. Financing, academic course accreditation, admissions, employment of staff, and examinations will be provided by the University. As a bilingual and bicultural section of the University, Collège will accommodate students from the main campus, and similarly Collège students will take what courses they require on the

main campus. This exchange will help to acquaint English-speaking students with the French language in its spoken context, as well as give Collège students opportunities for broader programs. Collège Universitaire Saint-Jean, will be an integral part of the University, not an affiliated college. The Dean of Collège will have the same status as other deans, and will be appointed jointly by the Administrative Council of the College and the University. The University will be responsible for all university level educational programs leading to university degrees, diplomas, and certificates. The Administrative Council of Collège will maintain the French-Canadian character and the ownership of its premises and facilities, which the University will lease. Staff at Collège St. Jean, hitherto receiving stipends from the profits of the institution, will be salaried.

Alumni of Collège, "les anciens" as they say, are to be found in many places. LOUIS DESROCHERS, The University of Alberta's new Chancellor; ROBERT GOULET, entertainer; BERNARD TURGEON, opera singer and Assistant Professor of Music; MAURICE LEGRIS, Assistant Professor of English; and JOHNNY GOTTSIEG, formerly of the Chicago Black Hawks, are a few. Collège Chorale has become a well-known French institution in Canada. Any local hockey-leaguer can testify to the strength of

St. Jean's hockey team, and many Edmonton residents look forward to the annual sugaring-off which is held at Collège. With these traditions to keep its character alive, Collège St. Jean should not fade but thrive with integration.



FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

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William Samis, *Editor*

Advisory Committee: E. D. Hodgson (*Acting Associate Dean of Graduate Studies*), J. W. Carmichael (*Professor of Bacteriology*), and Aymer A. Ryan (*Provost and Executive Assistant to the President*)

Staff: Katherine Govier (*Assistant Editor*), Jeanette Rothrock (*Senior Writer*), Forrest Bard (*Photographer*), Frank Hale (*Illustrator*), and Norma Gutteridge (*Copy Editor*)

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DISCIPLINE, LAW, AND ORDER

The Ad Hoc Committee of the General Faculties Council to review Discipline, Law, and Order on the campus has been asked to change its priorities from procedures (which was the original immediate priority given by the General Faculties Council) to a more philosophic question of "why" and "what" with regard to campus regulations. The following items are matters now before the Committee.

1. What are the rights and responsibilities (legal and academic) of members of the University community?

- (a) faculty
- (b) students
- (c) non-academic staff

What is the position of visitors to the campus?

2. Should the University have any disciplinary rules and regulations supplementary to the laws of the land? If it should how should it enforce them?

- (a) police function
- (b) judicial function

3. If there are to be University disciplinary rules and regulations, which of them should apply to

- (a) all members of the university community plus visitors to the campus?
- (b) all members of the university community only?
- (c) one segment of the university community only? (i) faculty, (ii) students, (iii) non-academic staff.

Persons and groups from all parts of the university community are invited to make written submissions on the items above and related topics to the Chairman of the Committee, F. WEICHMAN, Department of Physics, or to other members of the Committee: F. N. FEARN, Professor of Sociology; G. LEFRANCOIS, Professor of Educational Psychology; C. RICHMOND, Graduate Students' Association; S. G. ROBBINS, Professor of Physical Education; A. A. RYAN, Provost; N. WATTS, Graduate Students' Association; J. WESSELMAN, Non-academic Staff Association. The five undergraduate places have yet to be filled by the Students' Council.

Although submissions are always welcomed, the Committee strongly suggests that interested persons submit their ideas within two weeks of this announcement, for proper consideration, and to allow the Committee to invite respondents to amplify their ideas and proposals.

NRC APPOINTMENT

MARY SPENCER, Professor of Plant Science, is one of the first two women to be appointed to the National Research Council. Mrs. Spencer and MADAM THERESE GOUIN DECARIE, a research consultant in Psychology at St. Justine Hospital for Children in Montreal, took positions on the twenty-one member Council for three years beginning July, 1970.

The National Research Council is established for the purposes of undertaking, assisting, and promoting scientific and industrial research. The NRC sets policies for research in the National Science Laboratories in Ottawa and the regional laboratories in Saskatoon and Halifax. The laboratories in Ottawa are available to all of Canada for consultation on scientific problems, while the Prairie and Atlantic Regional Laboratories deal with problems peculiar to their specific areas. The NRC is also the main source of funds for research in Canadian universities. The funds for projects in the universities, laboratories, and industries come from three separate parliamentary votes. The Council is not responsible for the division of funds between these areas.

"A person is expected to bring to his position on the Council expertise in a specific field as well as an overall feel for science in Canada," says Mrs. Spencer. She feels that the work for the NRC is valuable as "a place where one can bring a viewpoint, and approach the problems that one can see in education and the economy." Mrs. Spencer expresses particular concern about the state of science in Canada in 1970. "We cannot afford the luxury of waste manpower; we are running out of time for solutions to the problems of this age. It is science that must meet these problems, and that requires persons trained to explore facts. There must be a way to educate young people to use their education . . . The valuable and the not-so valuable types of research must be sorted out, and more opportunities created for the utilization of scientific manpower."

One keen problem in Canada is that the majority of industries are too small to support research. The NRC aims to aid and develop industries to a point where they are sophisticated enough to compete in useful scientific research, and in the employment of trained scientists.

Mrs. Spencer has deep roots in Alberta; her mother came as a child with her family to pioneer near Ohaton, Alberta, and her father, JOHN J. STAPLETON, taught high school in Wetaskiwin in the early days.

Mary graduated in Honors Chemistry from the University of Saskatchewan, and earned graduate degrees from Bryn Mawr and the University of California at Berkeley. She has been at The University of Alberta since 1953.

As a plant biochemist, Mrs. Spencer studies the chemical reactions in living organisms, in particular the biochemistry of development and aging, in which the hormone ethylene plays a significant role. The effects of application of minute amounts of ethylene on plant and animal organisms are unknown as yet, and make exciting and vital research.

CANADIAN UNIVERSITIES EXPENDITURES 1968-69

The information below is reprinted from the Dominion Bureau of Statistics Weekly, November 6, 1970.

Canadian universities spent \$311.7 million on fixed assets (land, buildings, equipment, and contents) in the 1968-69 academic year. This was \$46.4 million (13.0 per cent) less than in 1967-68. It was the first decline since 1954-55, and probably indicates a scarcity of funds for capital purposes.

Operating expenditures of \$888.1 million in 1968-69 were 20.3 per cent higher than in the previous year, but the comparable increase was 27.5 per cent in 1967-68, and 34 per cent in 1966-67.

In spite of the levelling off of universities' total expenditures, they still increased faster than the Gross National Product. In 1968-69 they represented 1.55 per cent of the GNP compared with 1.53 per cent the previous year, and 1.03 per cent five years previously.

LANDSCAPING CONSULTANT APPOINTED

The University of Alberta has appointed MICHAEL HOUGH of Hough, Stanbury and Associates Limited of Toronto to develop a long range landscaping plan for the campus. The plan will relate to the Diamond/Myers long range development plan which suggests use of open spaces and pedestrian walkways within construction.

Mr. Hough will conduct a study to recommend objectives, priorities and budgeting for pedestrian movement systems, parking and roadways, outdoor recreation facilities, street lighting and furniture, and landscape maintenance. The study is expected to take six months.

INTER-UNIVERSITY GRADUATE TEACHING

The Civil Engineering departments at The University of Alberta and The University of Calgary will begin a trial program of "loaning" staff for graduate courses in January 1971. A staff member from The University of Calgary will teach a course in soil dynamics in Edmonton during the spring term, while two University of Alberta professors will give a course in plastic design of steel structures in Calgary. The instructors will spend one day each week at the universities.

The program, which has been approved by the Board of Governors, makes available to both universities courses of interest to practising engineers and graduate students. "Graduate training and research activities require large sums of money, especially in the engineering faculties which require expensive laboratory facilities for many programs," said S. R. SINCLAIR, Chairman of the Department of Civil Engineering. "It is evident that a single faculty cannot hope to support an outstanding graduate program in more than a few areas of specialization. Thus prospective students interested in other areas of study are forced to go elsewhere to continue their education." The first exchange courses will be given this spring. Eventually both departments, Edmonton and Calgary, will be able to offer a wide range of courses without large additional costs.

PEOPLE

■ ARLEIGH H. LAYCOCK, Professor of Geography, was elected president of the American Water Resources Association at its annual conference in Las Vegas. The Association is a multi-disciplinary organization of professional people concerned with water resources teaching, research, and development. Dr. Laycock served as a director for three years, during which time he was general chairman of the Banff Symposium in June, 1969, and had been vice-president and president-elect for a year. His election to the presidency, he says, was a normal, but not automatic, step upwards. He is preparing a monograph for AWRA on "Water Export to the United States?"

■ W. PILKINGTON, Associate Dean of Education, and MYER HOROWITZ, Chairman of the Department of Elementary Education, have left for Tanzania to conduct a feasibility study for the Canadian International Development Agency. They will assess the suitability of eleven Tanzanian primary methods teachers for a possible special program at The University of Alberta.

■ ALLAN WARRACK, Associate Professor of

Agricultural Economics and Rural Sociology, gave a seminar at The University of Lethbridge in connection with his work last summer for the Prices and Incomes Commission.

■ L. C. GREEN, University Professor of the Department of Political Science, participated in a symposium on Legal Problems in the Middle East, organized by the Institute of Human Relations in New York.

■ S. R. MUNRO, Director of the English Language Service, served as national conference chairman at the annual conference and business meeting of the Canadian Bureau of International Education in Winnipeg. The conference established new directional guidelines for the Bureau by means of a Five Year Plan. Professor Munro was also re-elected to the Bureau's Board of Directors for a two-year term.

■ Two University of Alberta staff members received Merit Awards at the Annual Government of Alberta Achievement Awards Dinner. VIOLET ARCHER, Professor of Music, and HARRY WOHLFARTH, Associate Professor of Extension, were honored for their outstanding contributions to the fields of music and art respectively.

■ WILFRED MALSCH, Professor of Comparative Literature, visited Amherst at the invitation of the University of Massachusetts where he read a paper on Goethe.

■ CLAUDE KENNESON, Associate Professor of Music, recently conducted the ninth Cello Symposium at the University of Colorado. Serving as guest clinician for the student chapter of the American String Teachers' Association conference, he gave a series of lecture-demonstrations. This month Professor Kenneson returns to Colorado to serve on the jury of the Denver Symphony Orchestra's "Young Artist" competition.

■ WALTER D. GAINER, Professor of Economics, was conference convenor and presented a paper at a national conference in Winnipeg, sponsored jointly by the Canadian Economics Association and the Canadian Council on Rural Development. S. DRUGGE, Associate Professor of Economics, also participated in the program.

■ W. F. REESE, Associate Professor of Elementary Education, and his wife BARBARA, have been elected honorary members of the Pakistan Students' Association for 1970-71. Honorary membership is awarded to those who have rendered distinguished service to Pakistan. Dr. and Mrs. Reese lived in Dacca between 1966 and 1968, when Dr. Reese was Professor of Science Education at the Institute for Education and Research there, and both have been closely

connected with the Pakistan Students' Association for some years.

■ FRANK ROSEMAN, Associate Professor of Economics, gave a paper at the Economic, Social, and Human Development conference held in Edmonton. Professor Gainer also contributed a paper.

VISITORS

■ A. H. ZEMANIAN of the Department of Applied Analysis, College of Engineering, State University of New York, Stony Brook, Long Island, addressed a Department of Mathematics colloquium on "Representation of Passive Operators on Spaces of Banach-Space-Valued Distributions."

■ BRIAN SKYRIMS, author of *Choice and Chance*, spoke to the Philosophy Club on "Parallel Worlds and the Principle of Plenitude."

■ E. MARGOLIASH of the Scientific Division of Abbott Laboratories, Chicago, visited the Department of Biochemistry and addressed a department seminar on "The 2.7 A Resolution Model of Cytochrome C."

■ MARION LESLIE, Professional Consultant of the Canadian Physiotherapy Association, visited the School of Rehabilitation Medicine to investigate the situation regarding physiotherapy in Alberta and to discuss the new BPT degree with the Director of the School, J. B. REDFORD. Miss Leslie also met with J. S. PERCY, Director of the Rheumatic Diseases Research Unit.

■ TAYLOR A. STEEVES of the University of Saskatchewan addressed a Department of Botany seminar on "The Functional Organization of the Shoot Apex."

NOTICES

COMMONWEALTH BURSARIES SCHEME

Applications are invited for awards under the Royal Society Commonwealth Bursaries Scheme, the purpose of which is to provide a means by which scientists of proven ability may increase their competence by working with scientists of a Commonwealth country other than their own, where the physical or personal environment is peculiarly favorable. The bursaries are for enabling such scientists to pursue research, learn techniques, or follow other forms of study in the natural and applied sciences. In the latter, Royal Society and Commonwealth Foundation Bursaries will be devoted especially to agriculture, fisheries, forestry, and the development of natural resources.

Applicants are expected to occupy permanent salaried posts to which they will return at the end of the visit, normally six to twelve months, depending on the project to

be completed. Study towards higher degrees or diplomas is specifically excluded. Bursaries may provide for travel and an allowance towards maintenance at an average rate of £80 per month depending on the applicant's circumstances and living costs in the country to be visited. No specific provisions are made for families.

Application forms may be obtained from the Student Awards Office, 122 Administration Building, and when completed should be sent to the Executive Secretary, The Royal Society, 6 Carlton House Terrace, London, S.W.1, to arrive before 15 March each year for proposed visits commencing in July of the same year and later, and before 15 September for proposed visits beginning in January of the following year and later. These closing dates cannot be varied and applicants are strongly advised to make their arrangements as early as possible.

W. O. MITCHELL TO SPEAK

The western Canadian novelist w. o. MITCHELL, author of *Who Has Seen the Wind*, *Jake and the Kid*, and *The Kite*, will speak Friday, November 27 at noon in room 126 of the Physics Building. The address, "The Prairie as a Novelist's Milieu," is sponsored by the Department of English.

GENERAL PROMOTIONS AND SALARIES COMMITTEE

The General Promotions and Salaries Committee of the General Faculties Council has prepared a *Manual of Policies and Procedures* in relation to its work. Copies are available for reference by interested faculty members in their Faculty and Department Offices, or from John Nicol, Secretary to the General Promotions Committee. Telephone 432-4954.

PUBLIC RELATIONS OFFICE MOVES

The Public Relations Office has moved to Room 250 Campus Tower, from its previous location in University Hall. The telephone number, 432-4201, is unchanged.

The Public Relations Office provides a liaison with news media off campus. Assistance can also be given to groups on campus planning conferences, and in providing material such as convention folders, campus maps, and other information about the University.

RADIO AND TELEVISION WORKSHOPS

The Department of Radio and Television is holding a series of workshops in its studios in the Biological Sciences Centre. The first was held for the Department of Music on November 25, and the second is to be for the Department of English on December 1 at 7:30 p.m. Others will be announced later.

Anyone interested in attending, or any department interested in holding a workshop, may secure further information by calling 432-4962.

PERSONAL NOTICES

Notices must reach the Editor by 9 a.m. the Friday prior to publication. They must be typed, and not exceed 35 words including heading.

Accommodation Available

FOR SALE—By owner. Split level home in Westbrook Estates. Six bedrooms (four upstairs, two in finished basement), three washrooms, large family room with fireplace, dinette, double attached garage, landscaped, fenced. No agents. 434-7933 after 6 p.m.

FOR SALE—Windsor Park. Spacious two-bedroom bungalow, large dining room. Fully completed basement (two bedrooms, rumpus room, and three-piece bath). Beautifully landscaped lot with double garage. \$39,900. 466-1575 after 5 p.m.

FOR RENT—Furnished home in Laurier Park, fifteen minutes from University. Carpeted kitchen, dishwasher, two ovens; two fireplaces, family room with pool table; two car garage. Available approximately January 1 to June 30, 1971. Rent negotiable. 488-3718.

FOR RENT—Completely furnished home—10 minutes from University. Available January 1 to June 30, 1971. Owner on sabbatical leave. Four bedrooms, two bathrooms, rumpus, family, laundry, and sewing rooms, study, garage. Phone Harvey Zingle, 489-8469.

FOR RENT—Executive bungalow. Three bedrooms, L-shaped living room, finished basement with den, bathroom, recreation room and utility room. Fully landscaped with patio. Available immediately, lease required, \$275 per month, 9902-144 Street. R. R. Faryon, local 4251 or 488-7412 after 7 p.m.

TO SHARE—House with three others, eight blocks from University, own room, fully furnished, garage, \$70 per month. 433-5947 evenings.

Automobiles and Accessories

FOR SALE—1966 Austin Mini (Right Hand Drive), fully weatherized, new tires, padded dash, roof rack, head rest, 45 mpg, no oil consumption, \$550. Unique in Canada—must sell. 215 J Michener Park. 435-1548.

FOR SALE—1968 white Volkswagen Deluxe, 1500 cc engine, sun roof, 38,000 miles, excellent condition. 434-9259.

FOR SALE—1962 Volkswagen 1500, sedan, gas-heater, snow tires, car-warmer, good condition. \$300. 433-2017.

FOR SALE—1966 Plymouth, V-8, 4-door sedan, A-1, a/t, low mileage, fully winterized. Call 423-1604 after 5:30 p.m.

FOR SALE—1961 Oldsmobile 98 convertible, V-8 automatic, power steering, brakes, window, seats, vent, trunk, and top. Some rust, very good mechanical condition, excellent heater, clean leather interior. \$250. Call 434-2898.

FOR SALE—1969 Renault-16, under 14,000 miles, excellent condition, one owner, \$2,100 or best offer. Ray 432-3268, 433-4558.

FOR SALE—Two almost-new Michelin radial tires, size 560/15. 488-5172.

Goods and Services

FOR SALE—Paoli Accordion with case—almost new (owner deceased). 434-3354 after 4:30 p.m.

DRESSMAKING AND ALTERATIONS—experienced seamstress. 433-2351 between 4:30 and 9 p.m. or on weekends.

FOR SALE—Livingroom drapes, fibreglass, lined, orange, size 144 in. by 85 in.; bedroom drapes, dacron, lined, flowered, size 80 in. x 60 in. (like new); bed-spread, large double-bed size, white chenille (like new). 433-2351.

FOR SALE—Men's ski boots size 9 and skates size 8. 488-5172.

FOR SALE—Champion sired Kerry Blue puppies—the elegant dog with a sense of humor, spirited but

sensible, alert guardian, lovely with children, no shedding, no doggy odor. 434-2047 after 3 p.m.

FOR SALE—Potted chrysanthemums, florist quality. Yellow, pink or bronze for Christmas season. Fresh, long lasting blooms. 699-5135 evenings and weekends.

WANTED—One office desk and chair for Varsity Christian Fellowship Office. Prefer low rent or loan basis. 432-5868 noon until 5 p.m.

FOR SALE—Viking 8 track cartridge stereo tape-recorder (new) plus 30 cartridges. Original price \$380, asking \$225—firm. 424-5248 after 6 p.m.

PIANO TEACHING—Katherine Oliver, recently of Sadler's Wells, London, will soon be opening a piano studio and invites inquiries from persons wishing instruction. For information please phone Mrs. Oliver or Dr. R. Siemens, 434-5724.

FOR SALE—Canon Demi camera with Canon lens, 28mm 1:2.8, leatherette case included. Excellent condition. \$40 or nearest offer. 435-5815.

FOR SALE—Two genuine Eskimo sealskin parkas with wolverine trim (hem appliqued with Eskimo motifs). One man's and one woman's—average size. \$75 each. 435-5815.

FOR SALE—Oval arborite-topped diningroom table with four swivel chairs, two pairs snow shoes, 2-burner coleman stove. 434-1659 between 6 and 7 p.m., or Enid at local 3844.

FOR SALE—Kitchen table, four chairs, and chesterfield, two years old, one owner, excellent condition. Must sell—owner leaving Canada immediately. 432-3844 (days) or 433-4307 evenings.

FOR SALE—Baby carriage which converts to car bed or bassinet. Stormshield, adjustable backrest, parcel carrier. \$50 or best offer. Contact Sharon 432-6363 (days) or 429-0995 after 5 p.m.

FOR SALE—Toynbee's *A Study of History*, Vols. 2-10 inclusive. Paperback edition. Very good condition. 434-8140 evenings.

FOR SALE—Lady Schick hair dryer, dishes (complete service for 8) house plants, camping equipment, lady's and infant's clothing, other miscellaneous items. All less than one year old—family returning to Europe. 434-9259.

FOR SALE—Three room group furniture, side and coffee tables, table lamp, crib, 24-inch TV (Philco), stereo tape recorder (Grundig TK46), car seat, baby protection gate, and other household articles. 433-2017.

FOR SALE—Lady's winter coat, fox fur collar and cuffs, size 12, bought in England and as new, \$25. 215 J Michener Park. 435-1548.

POSITIONS VACANT

NON-ACADEMIC STAFF

Applicants are sought for the following positions. The Personnel Office (Room 121, Administration Building) will provide further details to interested persons, who are asked not to approach the departments directly.

Clerk Typist II (\$302-\$386) Romance Languages; Slavic Languages and Comparative Literature; Zoology; Philosophy

Clerk Steno II (\$317-\$386) Chemistry; Business Administration and Commerce, Education (Audio Visual Centre)

Administrative Clerk (\$470-\$571) Vice-President Finance and Administration

Clerk Steno III (P/T) Chemistry

Biochemical Technician I (\$470-\$571) Plant Science

Electronics Technician II (\$571-\$693) Electrical Engineering

Chemical Technician I (\$470-\$571) Animal Science

Graphics Assistant (Open) Technical Services

Programmer III (\$693-\$843) Administrative Data Processing

THIS WEEK AND NEXT

27 NOVEMBER, FRIDAY

Student cinema 7 p.m. only *Dr. Faustus* with RICHARD BURTON, and *Othello* with LAURENCE OLIVIER. SUB Theatre. Admission \$1.

Piano recital 8:30 p.m. WILLIAM AIDE of the University of Manitoba presents a program of Haydn, Chopin, Debussy, and Walter Buczynski. Convocation Hall. Admission free.

Public lecture 12 noon. W. O. MITCHELL on "The Prairie as a Novelist's Milieu." Room 126, Physics Building.

29 NOVEMBER, SUNDAY

Hockey 2 p.m. Golden Bears vs. The University of Calgary. Varsity Arena.

30 NOVEMBER, MONDAY

Computing Science colloquium 4 p.m. R. ERICKSON, Department of Computing Science. "One On-line Man-Computer Evaluation Technique." Room 611, General Services Building.

4 DECEMBER, FRIDAY

Student cinema 7 and 9:30 p.m. *Head* with SONNY LISTON. SUB Theatre. Admission 50 cents.

Hockey 8 p.m. Golden Bears vs. the University of British Columbia. Varsity Arena.

Chamber music 8:30 p.m. The St. Cecilia Chamber Orchestra of the Department of Music, conducted by MICHAEL BOWIE, Assistant Professor of Music, with CATHERINE VICKERS, piano soloist. Convocation Hall. Admission free.

5 DECEMBER, SATURDAY

Edmonton Symphony 8:30 p.m. Also December 6 at 3 p.m. Beethoven Centennial Concert. ANTON KUERTI, pianist. Piano Concerto 2 in Bb; Symphony 8 in F; Piano Concerto 4 in G. Jubilee Auditorium.

Edmonton Art Gallery Opening of exhibition "Christopher Pratt—Retrospective." (Newfoundland)

6 DECEMBER, SUNDAY

Band concert 3 p.m. University of Alberta Concert Band, conducted by JOHN ILLIS, Associate Professor of Music. SUB Theatre. Tickets at the door.

Student cinema 7 and 9:30 p.m. *Warrendale*, a documentary. SUB Theatre. Admission 50 cents.

7 DECEMBER, MONDAY

SUB Art Gallery "Alberta Artists" series. An exhibition of prints by J. KNOWLTON and R. SYLVESTER.

Edmonton Film Society 8:15 p.m. *Mississippi Mermaid*, directed by FRANCOIS TRUFFAUT. Set in America, it stars CATHERINE DENEUVE and JEAN-PAUL BELMONDO. Main Series. Jubilee Auditorium.

9 DECEMBER, WEDNESDAY

Citadel Theatre Opening night of *The Secretary Bird* by WILLIAM DOUGLAS-HOME. With HENRY COMOR and JILL SHOWELL.

10 DECEMBER, THURSDAY

Edmonton Art Gallery Opening of exhibition "The Loeb Collection." (National Gallery of Canada)

11 DECEMBER, FRIDAY

Student cinema 7 and 9:30 p.m. *Bullitt* with STEVE MC QUEEN. SUB Theatre. Admission 50 cents.

12 DECEMBER, SATURDAY

Audubon wildlife film 8 p.m. ROBERT E. FULTZ'S *Acadian Reflections*, filmed in Acadia National Park, Maine. Creatures of land and sea are shown in their natural environment, and special effects photography creates a psychedelic effect from the natural movements of color and reflections. Room P126 Physics Building.

EXHIBITIONS

Edmonton Art Gallery Until November 30. "Eye on Edmonton." A new series designed to introduce Edmonton's artists. The first is URMILA UPADHAYA-GARG. Until December 2. "Vision and Expression." 308 photographs and photo-sculpture presenting a survey of contemporary photography.

The Art Gallery and Museum Until December 15. "From Reality: Five Vancouver Artists." Hours: Monday and Friday 12:30 to 4:30 p.m., Wednesday 11 a.m. to 7 p.m., Tuesdays and Thursdays 12:30 to 5:15 p.m. Closed on Sundays.

SUB Art Gallery Until December 4. *Four Kinetic Objects*: NICKOLAUS ROUKES, and the University of Alberta Department of Art Staff Show.

Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred. Compiled by NORMA GUTTERIDGE, 432-4991.

The specialized offerings of the Department of Technical Services are listed on these two pages. At right, a photographic technician prepares 35-millimetre lecture slides.



REPORT / TECHNICAL SERVICES

The Department of Technical Services provides a variety of services to all University departments. The department consists of seven divisions, and the services of each are listed in this supplement.

ELECTRONICS

Supervisor, J. G. A. BRUGMAN
Assistant Supervisor, P. G. FEKETE
Room 248 New Engineering Centre,
Telephone 4901

Services available

1. Designing and building specialized electronic equipment.
2. Servicing any type of electronic equipment such as spectrophotometers, gas chromatographs, tape recorders, recording equipment including dynagraphs, television sets, etc. Factory trained technicians available for service work on "Tektronix" scopes, "Hewlett-Packard" data systems, "Cary" and "Gilford" spectrophotometers, all "Beckman" equipment, EAI Hybrid computers, and PDP8 computers.
3. Electronics technicians are available on either a full time or part time basis for short or long periods of time.
4. Advice and assistance on technical problems.
5. Servicing all intercom installations and all sound systems on campus. There is no charge for this service.
6. A considerable amount of electronic equipment is available for loan; a catalogue listing the equipment can be obtained on request.
7. Advice and assistance on purchasing of equipment.
8. A preventive maintenance program is available to any department wishing regular servicing of electronic equipment. Service contracts are available.
9. A comprehensive library of technical bulletins and information on equipment

is available for the use of all University departments.

10. Complete fabrication of printed circuit boards, single and double sided.
11. Servicing centrifuges, both standard and ultra.

GRAPHICS

Supervisor G. T. WORMSBECKER
Assistant Supervisor R. W. MILLER
Room 135 Printing Services Building,
Telephone 3461 or 4184

Services available

1. Preparation of all types of drawings for publications, reports, theses, slides, TV and motion pictures.
2. Production of visual aids such as TV cards, overhead projector slides, flip charts, wall maps, etc.
3. Medical and biological illustrations.
4. Preparation of master drawings for printed circuits.
5. Design of posters and displays for conferences, symposia, etc.
6. Varytyping in many type styles, including Greek and mathematical.
7. Silkscreen and signpress printing.
8. Diazo copying (all types).
9. Electrostatic copying (enlarged and reduced) onto paper, acetate, etc.
10. Line negatives for printed circuitry, projectuals, or engineering reproduction.
11. Advice and assistance regarding visual instructional materials and techniques, graphics standards for publication, slides, etc.

GLASSBLOWING

Supervisor, C. SHOTT (Chemistry Department)
Room 160 Chemistry Building,
Telephone 3513

Services available

Scientific glassblowing to your specifications.

OFFICE EQUIPMENT REPAIR

Supervisor, R. R. REEDER
Room 130 New Engineering Centre,
Telephone 4901

Services available

1. Maintenance and repair on all lines of—
 - (a) dictation equipment,
 - (b) mechanical adding machines and calculators,
 - (c) electric typewriters,
 - (d) duplicating and photocopy machines,
 - (e) small office accessories such as reading accelerators, staplers (standard and electric), numbering stamps, etc.
2. Loan machines available while your machine being repaired.
3. Equipment available for rent (no charge under 3 days).
4. Parts and accessories for all lines of dictating machines, adding machines and calculators.
Tapes and log pads available through either Central Stores or Office Equipment Repair.
5. Repair of IBM type elements (fonts).

MACHINE SHOP

Supervisor E. F. EICHENLAUB
Assistant Supervisor G. L. EDWARDS
Room 132 New Engineering Centre,
Telephone 4901

Services available

1. Design and construction of specialized apparatus and equipment.
2. Complete shop service; machining, fabricating, and welding.
3. Service and repair of mechanical apparatus and equipment.
4. Advice and assistance on proposed projects.
5. Advice and assistance on proposed equipment.

6. Modification of equipment and machines.

Equipment is available to do the following:

1. SAWING

- (a) Band saw—36 inch throat—depth capacity to 12 inches—contouring to 36 inches diameter—band filing.
- (b) Cut-off saw—circular capacity to 12 inches.

2. TURNING—largest lathe has a capacity of 7 feet between centres with a swing of 20 inches over bed and a 29-3/4 inch swing in gap.

3. DRILLING AND BORING—radial drill has a 5-foot arm and drilling capacity in steel of 3 inches.

4. MILLING—largest milling machine has a table travel of 60 inches and a ram travel (cross) of 27 inches.

5. WELDING

- (a) Oxyacetylene
- (b) Arc
- (c) Tig, 500 amp maximum
- (d) Mig
- (e) Silver brazing
- (f) Plasma needle arc
- (g) Plasma arc cutting (stainless steel and aluminum).

6. FABRICATING

- (a) Power shearing 10 ft. x 1/4 in. capacity
- (b) Hand brake, 4 ft.
- (c) Punching and notching on "Ironworker"
- (d) Bending on a "Diacro" number 8 power bender, 3/8 in. x 4 in. flat and 1 1/4 in. mild steel bar capacity
- (e) "Pioneer" nibbler, 1/8 in. capacity.

7. GRINDING AND LAPING

- (a) "Norton" tool and cutter grinder
- (b) Lapping machine, 5 in. diameter capacity,

8. GAUGING

- (a) "Scherr-Tumico" model P1600 Optical Comparator with photo print facility,
- (b) Registered Double "A" standard surface plate and gauge blocks in temperature-controlled room.

9. POLISHING

- (a) Mechanical buffing
- (b) Electro-polishing
- (c) Anodizing
- (d) Bluing

10. SHOT-BLASTING—shot-blast machine has a chamber size of 48 in. x 30 in. x 38 in.

MICROSCOPE REPAIR

Supervisor, R. J. CUNNINGHAM
Room 260 New Engineering Centre,
Telephone 4901

Services available

- 1. Maintenance and repair of microscopes.
- 2. A preventive maintenance program is available to any department wishing regular servicing of microscopes.
- 3. Sharpening of microtome knife blades.
- 4. In the near future will provide a preventive maintenance service on balances.
- 5. Repair of electrical meters (movements only)—voltmeters, ammeters, etc.

AUDIO VISUAL SERVICES

Supervisor J. DE WACHT
Room 372 General Services Building,
Telephone 3923

Equipment pools located in:

Room 372 General Services Building,
Room LB9 Henry Marshall Tory Building,
Room z207 Biological Sciences Building.

Services available

- 1. Projectionist services.
- 2. Operation of public address and sound systems.
- 3. Supplying projection equipment to departments.
- 4. Setting up and operation of recording equipment at lectures, seminars, talks, etc.
- 5. Advice and assistance on purchase of equipment.

Equipment available for short-term loan:

- 1. 35mm slide projectors (Kodak Carousel AV-900).
- 2. 35mm slide projector, random access.
- 3. 16mm motion picture projectors (sound) including the following special projectors:
 - (a) 16mm projector (silent) variable speed; slowest frame rate is 13 per second,
 - (b) 16mm projector (photo data optical analyzer) which will project at the following frame speeds: 1, 2, 4, 6, 8, 12, 16 and 24 frames per second with no flicker,
 - (c) 16mm projector (magnetic sound).
- 4. 3 1/4 x 4 1/4 slide projectors.
- 5. Opaque projectors.
- 6. Filmstrip projectors.
- 7. Overhead projectors.
- 8. Tape recorders (several kinds, including battery-operated and cassette recorders).
- 9. Portable public address systems.
- 10. Projection screens.
- 11. Record players.
- 12. Slide-tape synchronizing systems.

PHOTOGRAPHIC SERVICES

Supervisor A. CHERNICK
Room 130 Printing Services Building,
Telephone 4186 or 3812

Services available

- 1. Original photography—prints and slides in black and white and in color.
- 2. Copy work—prints and slides in black and white and in color.
- 3. Production of superior quality black and white prints using an electronic scanning enlarger.
- 4. Portraits.
- 5. Photomicrography, microphotography, macrophotography.
- 6. Specialized scientific and medical photography.
- 7. Murals.
- 8. Microfilming.
- 9. Film processing and printing in black and white and in color.
- 10. Camera and accessory rentals.
- 11. Motion Pictures:
 - (a) Complete film production services, silent and sound,
 - (b) High-speed photography to 11,000 frames per second,
 - (c) Time lapse,
 - (d) Data recording,
 - (e) Post filming services including editing,
 - (f) Both 16mm and 35mm professional equipment uses,
 - (g) Super 8 filming.

NOTE: photographic materials are available at Central Stores.

DATA ACQUISITION AND INTERFACING

In addition to the services noted, we are able to provide advice and design service for data acquisition and interfacing. Equipment is also available. M. DE LEEUW, Room 372 General Services Building, telephone 5385, may be consulted for these services.

Comments, suggestions, or complaints on all services are welcomed.

W. H. JOPLING,
Co-ordinator, Technical Services.

**TECHNICAL SERVICES
TELEPHONE DIRECTORY**

Co-ordinator	3302
W. H. Jopling	
Room 372, General Services Building	
Graphics	3461
Electronics	4901
Glassblowing	3513
Machine Shop	4901
Microscope Repair	4901
Office Equipment Repair	4901
Photo Services	4186 or 3812
Projection Services and Equipment	3923